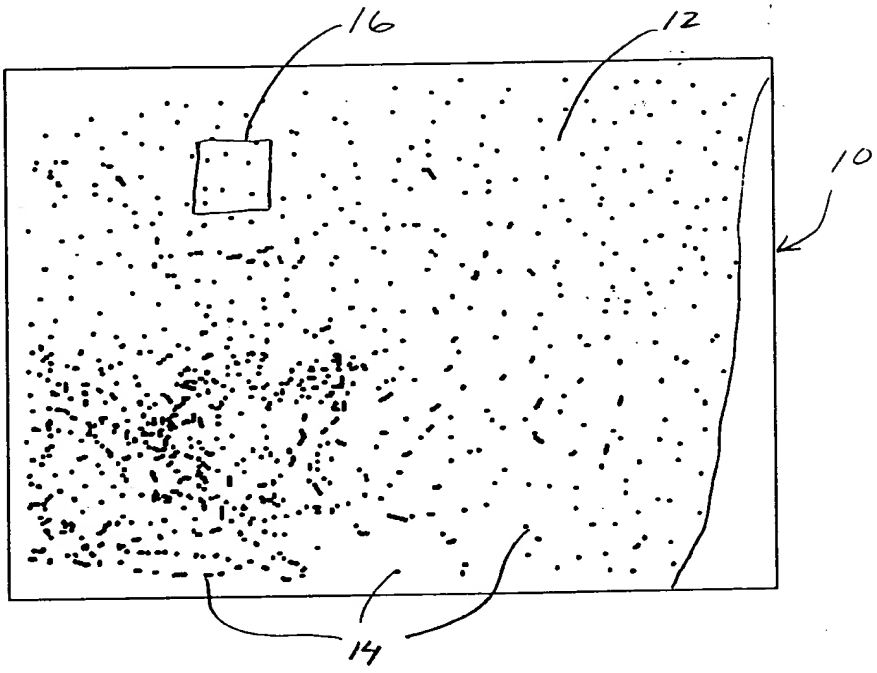

Fig. 1

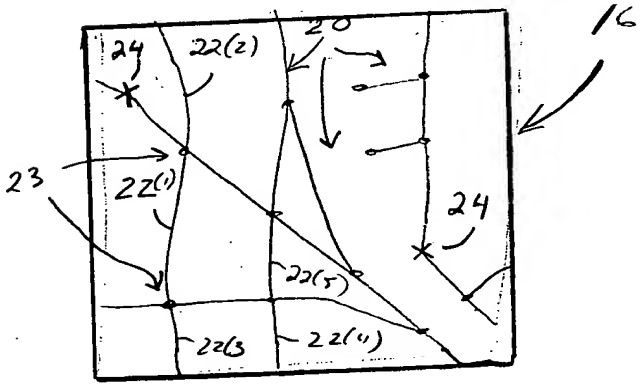

Fig. 2

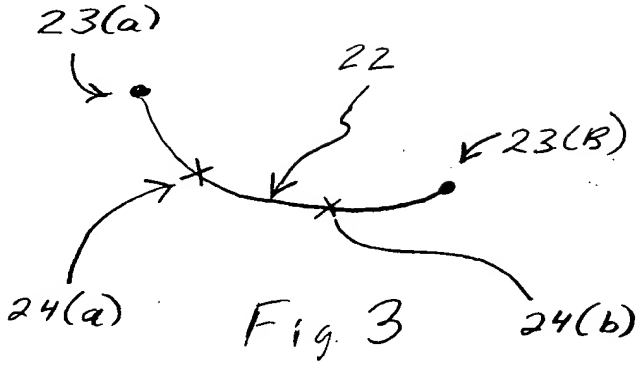

Fig. 3

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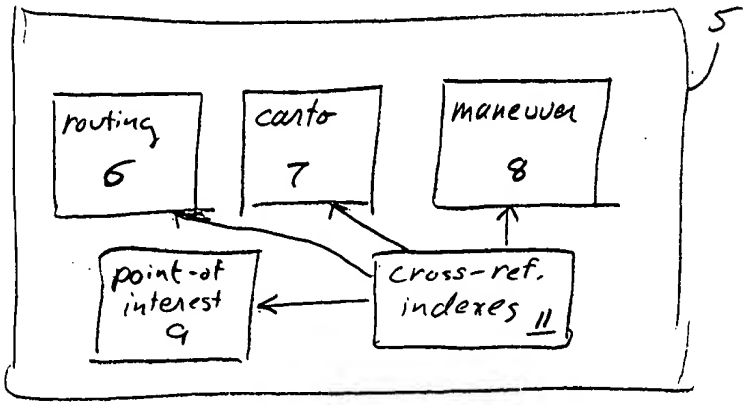

Fig. 4

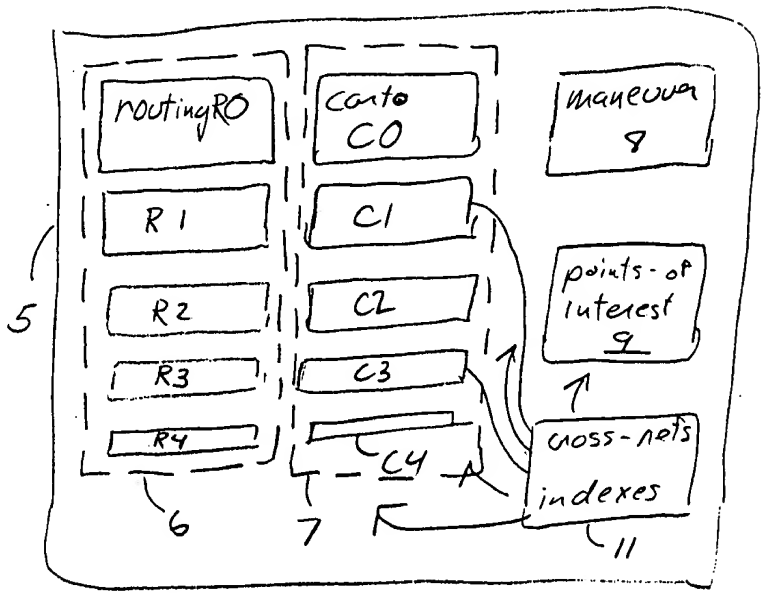

Fig. 5

7117-89

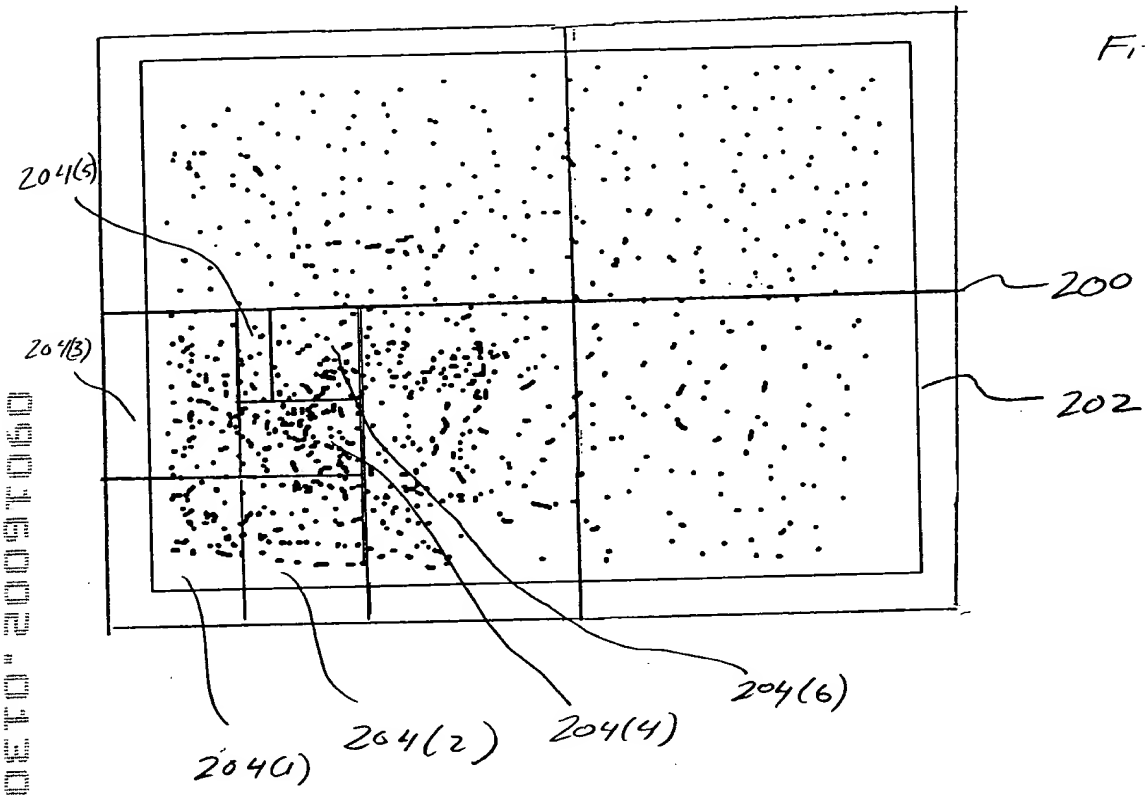

Fig. 6

SUBSTITUTE SHEET (RULE 26)

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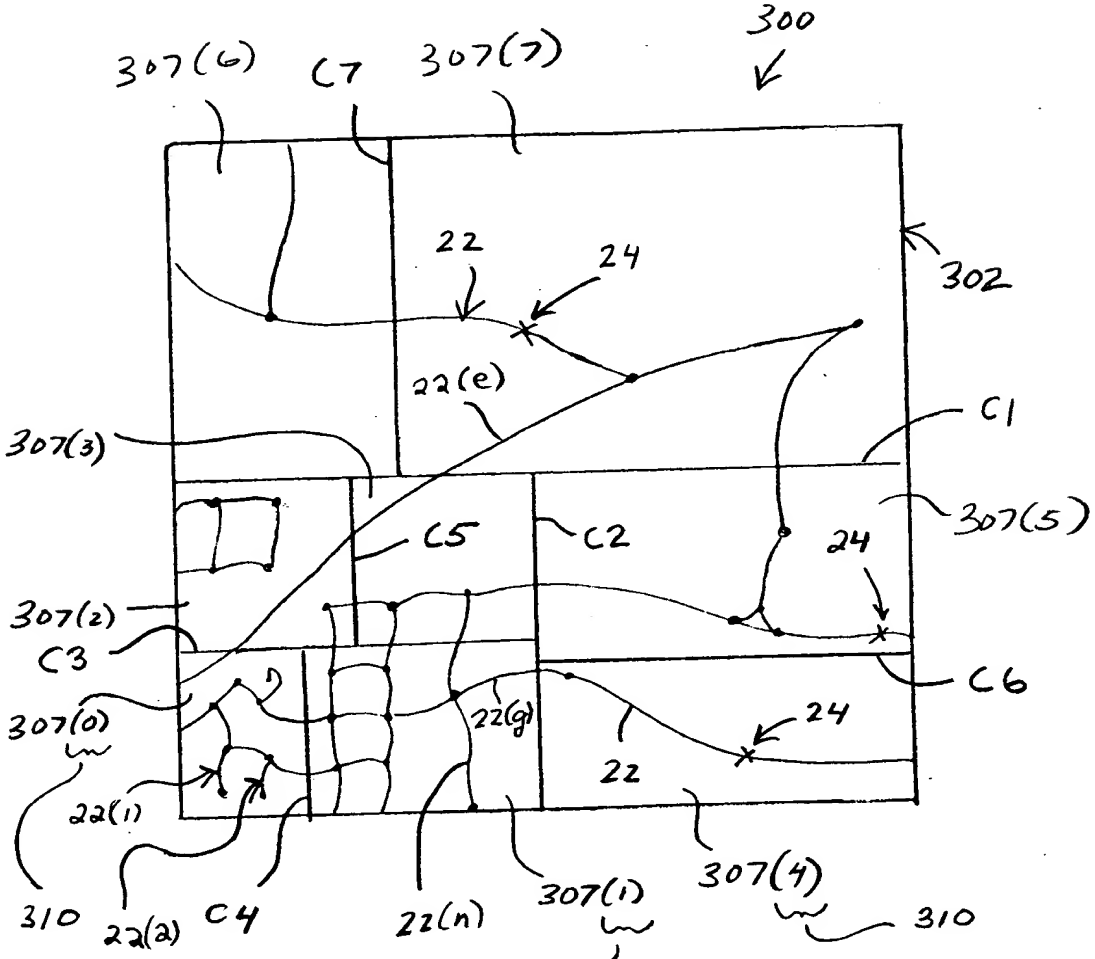

Fig. 7

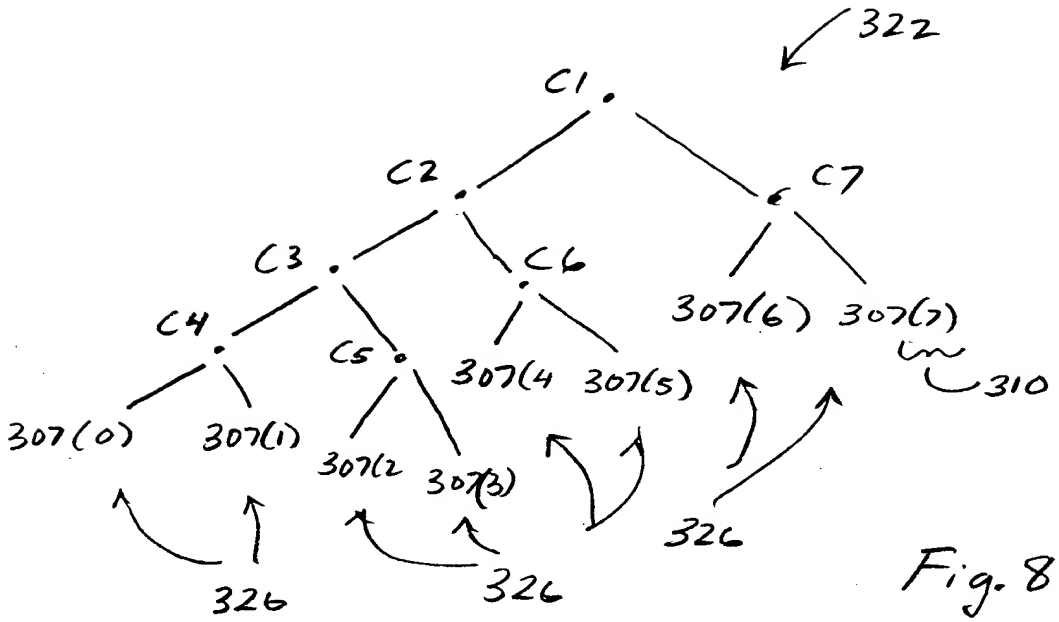

Fig. 8

09/03/2004, EAST Version: 2.0.1.9

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Internal KD-Tree Entry

Byte 0								Byte 1							
00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
Control Bits								Left Offset or Index				Right Offset or Index			

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Control Bit Definitions:

Bit 0: 0 = Vertical Cut; 1 = Horizontal Cut

Bit 1: 0 = Left is Offset; 1 = Left is Index

Bit 2: 0 = Right is Offset; 1 = Right is Index

Bits 3-7: Location of Cut

Offset/Index Bit Definitions:

Bits 8-11: Left Offset or Index

Bits 12-15: Right Offset or Index

An *Offset* is the distance from the beginning of the current entry, in 2-byte units, to the beginning of its left or right child entry.

An *Index* is in the range 0-7, and is the index assigned to the rectangle represented by the left or right child of the current entry.

Fig. 9

EP 0 540 290 B1

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	SUB-RECTANGLE INDEX							
SEGS	(0)	(1)	(2)	(3)	(4)	(5)	(6)	(7)
seg(1)	1	0	0	0	0	0	0	0
seg(2)	1	0	0	0	0	0	0	0

---								
seg(e)	1	0	1	1	0	0	0	1
seg(g)	0	1	0	0	1	0	0	0
---								
seg(n)	0	1	0	0	0	0	0	0

Fig. 10

Sheet 8 of 8 - 0 0 5 0 4 0 5 0 0 2

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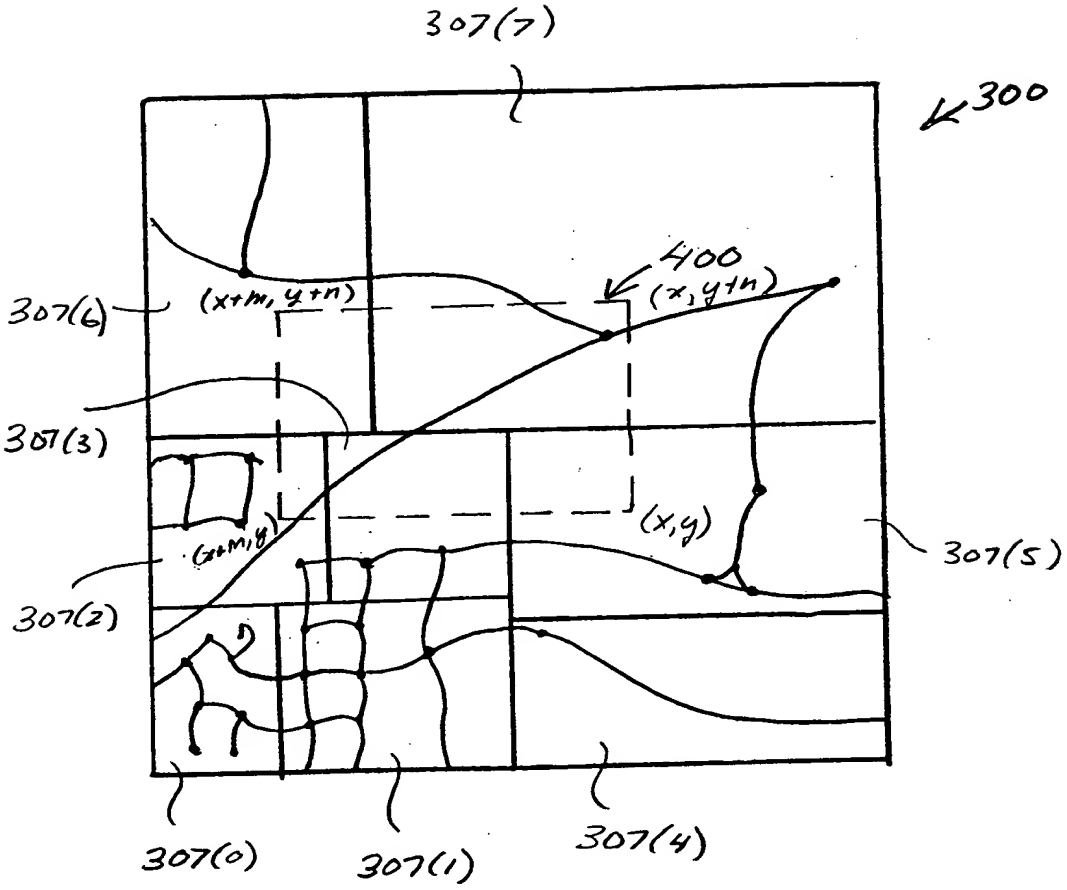
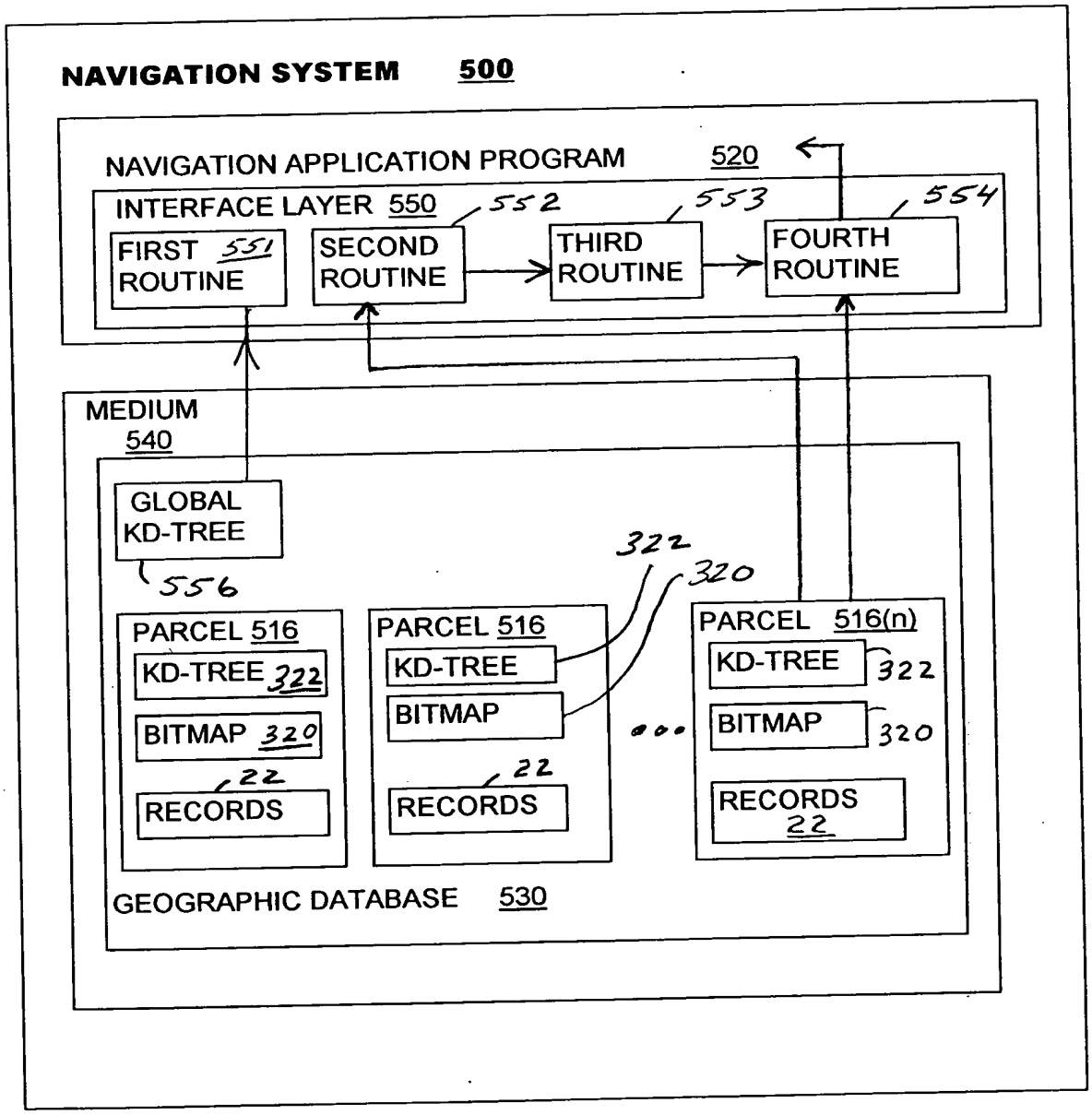


FIG. 11

Approved - 05/05/98

FIG. 12


NAVIGATION SYSTEM 500
NAVIGATION APPLICATION PROGRAM 520
INTERFACE LAYER 550
FIRST ROUTINE 551
SECOND ROUTINE 552
THIRD ROUTINE 553
FOURTH ROUTINE 554
MEDIUM 540
GLOBAL KD-TREE 556
PARCEL 516
KD-TREE 322
BITMAP 320
RECORDS 22
PARCEL 516
KD-TREE
BITMAP
RECORDS 22
322
320
PARCEL 516(n)
KD-TREE 322
BITMAP 320
RECORDS 22
GEOGRAPHIC DATABASE 530

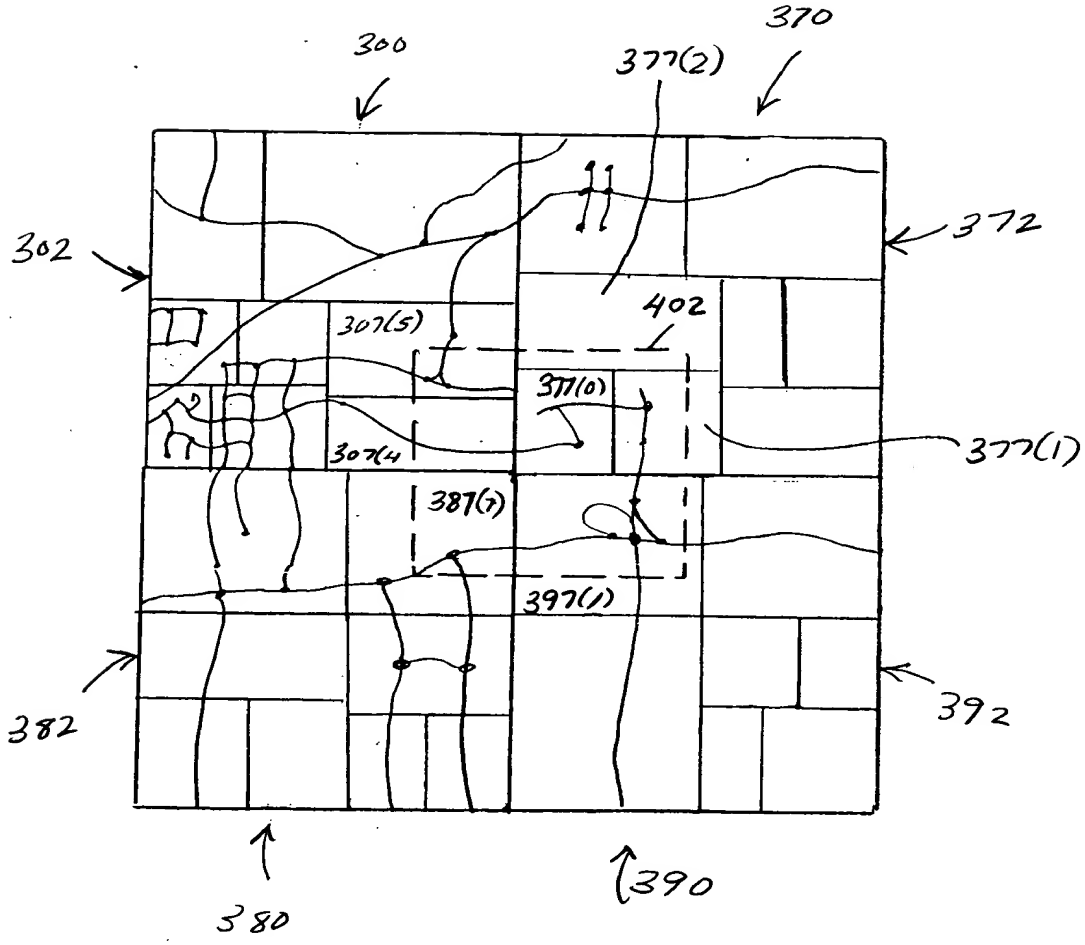


Fig. 13

09/15/2005, EAST Version: 2.0.1.4